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(54) Title: **SYSTEM FOR MONITORING EXPOSURE TO IMPULSE NOISE**

(57) Abstract: In one embodiment, a system for monitoring exposure to impulse noise includes a sound-sensing device, such as a microphone or other type of pressure transducer, operable to sense impulse noise, and a storage module operable to store the waveform of the impulse noise sensed by the sound-sensing device. The sound-sensing device desirably is operable to sense impulses that are greater than 146 dB, such as impulses created by construction machinery and firearms. The system also can include a processor operable to calculate one or more noise parameters of the impulse noise from the waveform, and a user interface program operable to display said one or more noise parameters selected by a user.

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